

PAPERWORK REDUCTION ACT
DOC/NOAA ECONOMIC PERFORMANCE DATA SURVEYS FOR
WEST COAST COMMERCIAL FISHERIES CLEARANCE
OMB CONTROL NUMBER 0648-0369

This form should only be used if you are submitting a collection of information for approval under the DOC/NOAA Information Collection Request for Economic Performance Data surveys for the West Coast Commercial Fisheries assigned OMB control number 0648-0369. Mail this form, responses to the supplemental questions, the collection instrument, and any additional documentation to: **Office of Information and Regulatory Affairs, Office of Management and Budget, Docket Library, Room 10102, 725 17th Street NW, Washington D.C. 20503.** If the collection does not satisfy the requirements of the program clearance, you should follow the regular PRA clearance procedures described in 5 CFR 1320.

Title (Please be specific)

Burden Hour Estimates

Number of respondents

Total Burden Hours

Hours per response

Cumulative Burden Hours
under Program Clearance

Agency Contact (*person who can best answer questions about the content of the submission*)

Name

Phone

Certification: The collection of information requested by this submission meets the requirement of the OMB approval for OMB control number 0648-0369.

Signature of Program Official

Date

Signature of NOAA Paperwork Clearance Officer

Date

OIRA

Date

Answers to supplemental questions for DOC/NOAA economic performance data surveys for west coast commercial fisheries programmatic clearance (OMB Control Number 0648-0369)

Coastal purse seine vessel cost-earnings survey form:

1. This survey will be administered to owner/operators of coastal purse seine vessels which participate in the west coast, coastal pelagic species (CPS -- mackerel, sardine, anchovy, squid) fisheries. Coastal purse seiner owner/operators are most knowledgeable about the economics of CPS fishing operations. The data from this survey will be used to analyze the economic impacts of management actions that will be considered to directly allocate the annual harvest guideline for Pacific sardine among different geographic sectors of the fishery: Southern California (ports from Santa Barbara south to the US and Mexico border); Northern California (ports in the Monterey Bay area); and the Pacific Northwest (mainly ports in the Columbia River Area off Oregon and Washington). This is a regulatory action being taken by the Pacific Fishery Management Council (PFMC) under its CPS fishery management plan (FMP). Through PFMC meetings and other informational meetings, industry members have become well aware of the allocation issues and are very anxious to provide the economic data needed to analyze the economic impacts of harvest guideline allocation alternatives that are considered .

2. This survey was developed based on previous cost-earnings data collection efforts in the west coast drift gillnet and albacore troll fisheries, and in conjunction with the CPS fishing industry. A draft questionnaire was prepared and field tested in cooperation with coastal purse seine vessel owner/operators through the Southern California Commercial Fishing Association (SCCFA). Feedback from industry has resulted in improvements to the content and structure of the questionnaire, specifically: more precise measures of a vessel's value; the different types of gear (nets) used; the different categories of labor on the vessel and the labor remuneration system; identifying the major target species; and identifying the fixed and variable cost elements (see attached: Coastal Purse Seine Vessel Cost-Earnings Survey Form). A sampling framework has been developed (see attached: Coastal Purse Seine Vessel Cost-Earnings Survey Sampling Framework) and refined to assure that all sectors of the fishery will be randomly sampled and the data collected is representative of the coastwide fleet, and the sub-fleet constituting each fishery sector. Sample mean values and variances for the cost-earnings data elements will be computed and used to generate fleetwide estimates of changes in net benefits and private profits, and corresponding confidence intervals, associated with proposed regulatory actions.

3. The survey will be conducted through personal interviews. In cases where a personal interview is not practicable the questionnaire will be administered via phone or direct mail. Participants will be identified through the sampling design (see attached: Coastal Purse Seine Vessel Cost-Earnings Survey Sampling Framework). For each sample stratum the appropriate number of vessels will be randomly drawn to satisfy the sampling design. The owner of record for each selected vessel will be contacted to participate in the survey. In cases where the initial contacts do not provide the necessary number of respondents to satisfy the sampling design, replacement vessels will be randomly drawn from those remaining in that sample stratum after the initial draw. This cycle will be repeated until the specified sample size is attained for each stratum. We expect this approach to yield a - - *de facto* - - 100% response rate in terms of

achieving the desired sample size from each stratum, since there will be a large number of replacement vessels available in each sample stratum.

We further expect a 100% response rate due to close cooperation with, and involvement of the industry in this data collection. Industry members have demonstrated a willingness and expressed an eagerness to participate in this data collection, which should greatly enhance the response rate. The vast majority of the questionnaires will be personally administered by the executive director of the vessel association (SCCFA) which will also foster a high response rate.

4. The data from this survey will be used in a project/policy valuation approach to conduct welfare (cost benefit analysis) and financial analyses of fishery conservation and management actions proposed for the west coast CPS fisheries. The immediate use will be to conduct a Regulatory Impact Review, and Regulatory Flexibility Analysis of management options for directly allocating the harvest guideline for Pacific sardine among different geographical sectors of the fishery. These analyses are mandated under FMP amendment process of the Magnuson-Stevens Fishery Conservation Management Act. Also, since the same vessels target tunas (yellowfin, albacore, bluefin) which will be subject to domestic management under the PFMC's pending Highly Migratory Species (HMS) FMP, these data will also be used to evaluate the welfare and financial impacts of management actions proposed by the PFMC for west coast tuna fisheries. Sample means and variances for the cost-earnings data elements will be computed and used to generate fleetwide estimates of changes in net benefits and private profits, and their corresponding confidence intervals, associated with proposed regulatory actions. These statistics will also be used in a Monte Carlo simulation to generate the probability distribution of possible outcomes in various risk analyses.

Coastal Purse Seine Vessel Cost-Earnings Survey Sampling Framework

Survey Objectives

To obtain representative sample means and variances' characterizing cost-earnings data for the 118 US west-coast purse seine vessels participating in the coastal pelagic fisheries (CPS - - northern anchovy, Pacific mackerel, Pacific sardine, and/or market squid).

Population to be Sampled

The population for this coastal purse seine vessel, cost-earnings survey consists of west-coast based fishing vessels that used purse seine nets to catch CPS along the US west coast of Washington, Oregon, and California during 2002. Only vessels with total CPS exvessel revenues greater than \$1,000 are included (107 vessels in 2002). Vessels with landings less than \$1,000 (11 in 2002) were considered to have had incidental catches to other fisheries and were not included.

These vessels operate in three geographically distinct fisheries off of Southern California (ports from Santa Barbara south to the US and Mexico border), off of Northern California (ports in the Monterey Bay area), and of the Pacific Northwest (mainly ports in the Columbia River Area off Oregon and Washington).

Data to be Collected

See accompanying survey questionnaire.

Degree of precision required

Relative precision: the sample size determination formula that we used specifies that our sample mean will be within 15% of the true population mean 95% of the time (corrected for finite population).

where
$$n = N / (1 + N(\epsilon\mu / zS)^2) \quad (1)$$

and

- n = sample size
- N = population size
- μ = mean CPS exvessel revenue for 2002
- S = population standard deviation
- z = student t value for 95% confidence level (1.96)
- ϵ = desired coefficient of variation for the sample mean (.15)

From the PacFIN Management Database we calculated values for the population parameters:

N = 107 (vessels with CPS exvessel revenues > \$1,000 in 2002)
 μ = \$277,608
S = 271,812

Given these parameters, and solving (1) for the overall sample size, yields $n = 65$ vessels.

Stratification

We have assigned a principal home port for each purse seine vessel based on plurality of the vessel's CPS exvessel revenue by port. There were seventeen principal ports for the 107 vessels in the population with annual CPS exvessel revenue above \$1,000. Based on its principal port each vessel in the population was assigned to a geographic fishery sector: Pacific northwest, 19 vessels; northern California, 22 vessels; and, southern California 66 vessels.

We based the number of vessels to be sampled in each fishery sector on the proportion of total 2002, west-coast CPS exvessel revenue by fishery sector: Pacific northwest, 15.8%; northern California, 29.2%; and, southern California 54.9%. Using this approach the overall sample of 65 vessels -- annual CPS exvessel revenue above \$1,000 -- partitioned by fishery sector is: Pacific northwest, $15.8\% = 10$ of 19 vessels; northern California, $29.2\% = 19$ of 22 vessels; and southern California, $54.9\% = 36$ of 66 vessels.

Vessels that make up the sub-samples for each fishery sector will be randomly selected from the sub-populations in each fishery sector to obtain a representative cross section for each strata. For each vessel in the population we have its Coast Guard documentation number and/or its state fishing vessel registration identification number. Using the Coast Guard documentation numbers, or state fishing vessel registration identification numbers, vessel owner/operator contact information will be developed from Coast Guard vessel documentation lists, state vessel registration lists and industry association membership lists for each of the randomly selected vessels constituting the fishery sector sub-samples. For each of the vessels in the sub-sample, its owner/operator will be contacted in person, by telephone, by e-mail, by FAX, or by mail. If after a reasonable period of follow up it is determined that no response will be obtained, a replacement vessel will be randomly selected from the vessels not previously selected from that fishery sector, and its owner/operator will be identified and contacted. This non-response replacement procedure will be repeated until a response is obtained, or until each remaining vessel in that sector has been contacted but does not responded to the survey; i.e. all the vessels remaining in a after the initial draw have been exhausted.

Coastal Purse Seine Vessel Cost-Earnings Survey

Dear Coastal Purse Seine Fisherman,

To evaluate economic impacts of proposed regulations, federal fishery managers must have accurate baseline economic information for the coastal purse seine fishery. Without this information, an accurate assessment of the potential economic impacts of a fishery regulation cannot be made, making it difficult for fishery managers to craft regulations that best protect the economic interests of fishery participants.

This survey is designed to provide baseline economic information about the coastal purse seine fishery in order for federal fishery managers to evaluate the economic consequences of any federal regulation that impacts the fishery.

It is very important that you understand that this is a voluntary survey. Notwithstanding any other provision of the law, no person is required to respond to, nor shall any person be subject to penalty for failure to comply with, a collection of information subject to requirements of the Paperwork Reduction Act, unless that collection of information displays a current valid OMB Control Number.

The OMB Control Number for this survey is OMB Control #0648-0369 which expires 12/31/2005.

While this is a voluntary survey, the information is needed to respond to requirements of the Magnuson-Stevens Fishery Conservation and Management Act. In accordance with Section 402(b), the Regulatory Flexibility Act and NOAA Administrative Order 216-100, "Confidentiality of Fishery Statistics", any information submitted to NMFS by any person in response to this survey shall be considered confidential and shall not be disclosed except to: (1) federal employees and Pacific Fishery Management Council employees who are responsible for fishery management plan development and monitoring; (2) state employees pursuant to an agreement with the Secretary of Commerce that prevents the disclosure of this information; or (3) when required by court order.

Public burden for this collection is estimated at 1.5 hours per survey, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing the survey. Send comments regarding this burden estimate or any other aspect of this data collection, including suggestions for reducing the burden, to:

Dr. Samuel F. Herrick, Jr.
Southwest Fisheries Science Center
8604 La Jolla Shores Drive
La Jolla, California 92037-1508

Thank you for your participation.

Coastal Purse Seine Vessel Cost-Earnings Survey Form

For Year _____ Survey No. _____

Fishery Sector _____

HIGHLY CONFIDENTIAL

VESSEL INFORMATION		ANSWERS
1.	Home port	
2.	Vessel dimensions	
a.	length (ft)	
b.	width (ft)	
c.	depth (ft)	
d.	Gross tons	
e.	Net tons	
3.	Main engine horsepower	
4.	Year built	
5.	Year purchased	
6.	Purchase price	
a.	Vessel only	\$
b.	Vessel and deck gear	\$
c.	Deck gear (if not included in purchase price of vessel)	
d.	Electronics	
e.	Fishing Permits (list)	
	1.	\$
	2.	\$
	3.	\$
7.	Vessel value	
a.	Insured/Replacement value	\$
b.	Market value (including permits)	\$

Vessel Information Cont.		
8.	Gear	
a.	Net 1	
	1. Type	
	2. Replacement value	\$
b.	Net 2	
	1. Type	
	2. Replacement value	\$
c.	Net 3	
	1. Type	
	2. Replacement value	\$
ANNUAL FIXED COSTS		
9.	Vessel depreciation and ammortization	\$
10.	Vessel interest payments	\$
11.	Vessel insurance payments	\$
a.	Health	\$
b.	Liability	\$
c.	Other (describe)	\$
12.	Legal fees	\$
13.	Office expense	\$
14.	Business license, registration, and permit fees	\$
15.	Professional accounting service	\$
16.	Mooring/Slip fees	\$
17.	Drydock	\$
a.	Frequency of dry docking on average	
18.	Engine maintenance	\$
19.	Other fixed maintenance	\$
20.	Purchase of safety gear	\$
21.	Maintenance of safety gear	\$
22.	Supplies	\$
23.	Salaries	\$
24.	Other	\$

OWNER/OPERATOR QUESTIONS		ANSWERS		
25.	Your position with this vessel			
a.	Owner			
b.	Captain			
c.	Other (please describe)			
26.	Year born			
27.	Years fishing			
28.	Years captained this vessel			
FISHING TRIP INFORMATION				
Fishery		Wetfish	Squid	Tuna
29.	Hired captain (Yes/No)			
a.	If yes, percent of time			
30.	Total crew			
31.	Total number of trips per year			
a.	Number in Southern California waters			
b.	Number in Northern California waters			
c.	Number in Pacific Northwest waters			
32.	Average days at sea per trip			
33.	Days actually fishing			
34.	Number of sets per day fished			
35.	Type of refrigeration			

ANNUAL OPERATING (VARIABLE COSTS)				
Fishery		Wetfish	Squid	Tuna
36.	Fuel			
a.	Fuel/Oil consumed (gallons)			
b.	Total fuel/oil costs	\$	\$	\$
37.	Labor			
a.	Total labor costs	\$	\$	\$
b.	Hired captain costs	\$	\$	\$
38.	Fishing Share (% of catch) received by:			
a.	Vessel (i.e. owner)			
b.	Captain			
c.	Crew members			
d.	Engineer			
39.	Did everyone work on a share basis?			
a.	If someone (including yourself) with the vessel did not receive a set fishing share, what alternative compensation method was used? Please describe.			
40.	Food costs	\$	\$	\$
41.	Fishing gear and equipment			
a.	Replacement costs	\$	\$	\$
b.	Maintenance and repairs	\$	\$	\$
42.	Spotter plane			
a.	Share (% of catch)			
b.	Cost	\$	\$	\$

Annual Operating Costs Cont.		Wetfish			Squid		Tuna
43.	Light boat						
a.	Share (% of catch)						
b.	Cost	\$			\$		\$
44.	Other Variable Cost Describe	\$			\$		\$
ANNUAL CATCH AND REVENUE							
Fishery		Catch (short tons)			Revenue (dollars)		
45.	Wetfish	S. CA	N. CA	P. NW	S. CA	N. CA	P. NW
a.	Sardine				\$	\$	\$
b.	Anchovy				\$	\$	\$
c.	Mackerel				\$	\$	\$
46.	Squid				\$	\$	\$
47.	Tuna	S. CA	N. CA	P. NW	S. CA	N. CA	P. NW
a.	Bluefin				\$	\$	\$
b.	Yellowfin				\$	\$	\$
c.	Skipjack				\$	\$	\$
d.	Albacore				\$	\$	\$
48.	Other (identify)				\$	\$	\$